

8.0 AVENAL ACRONYMS

AA	Administering Agency
AC	alternating current
ACC	air cooled condenser
ACSR	Aluminum Conductor Steel Reinforced
AFBC	atmospheric fluidized bed combustion
AF	acre foot (325,900 gallons)
AFC	Application for Certification
AFY	acre-feet per year
AGPP	Avenal General Plan Page No.
AMC	Avenal Municipal Code
AMTM	American Society for Testing and Materials
APCD	Air Pollution Control District
APCO	Air Pollution Control Officer
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
ARB	Air Resources Board
ASTM	American Society for Testing and Materials
BAAQMD	Bay Area Air Quality Management District
BACT	Best Available Control Technology
BMP	Best Management Practices
BNSF	Burlington Northern and Santa Fe
BOP	Balance of the Plant
BPA	Bonneville Power Administration
BPA Program	Bonneville Power Administration Corona and Field Effects Program
BPIP	Building Profile Input Program
Btu	British thermal unit
BWR	boiling water reactors
CAISO	California Independent System Operator
Cal-ARP	California Accidental Release Prevention
Cal-EPA	California Environmental Protection Agency
Cal-OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAS	Chemical Abstract Service
CATEF II	California Air Toxic Emission Factor II
CBC	California Building Code
CBEDS	California Basic Educational Data System
CBO	Chief Building Official
CCR	California Code of Regulations
CDC	California Department of Conservation
CDFG	California Department of Fish and Game
CDMG	California Division of Mines and Geology

CDOF	California Department of Finance
CEC	California Energy Commission (also referred to as "Commission")
CEDD	California Employment Development Department
CEM	Continuous Emission Monitoring
CEMS	Continuous Emissions Monitoring System
CEPA	California Environmental Protection Agency
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHP	California Highway Patrol
CIWMB	California Integrated Waste Management Board
CLCW	closed-loop cooling water
cm	centimeter
CNDDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNLM	Center for Natural Land Management
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
COD	commercial operating date
Commission	California Energy Commission
CPUC	California Public Utility Commission
CRGT	chemically recuperated gas turbine
CRHR	California Register of Historic Resources
CTG	combustion turbine generation
CUP	Conditional Use Permit
CVP	Central Valley Project
CWA	Clean Water Act
D/FD	Duke/Fluor Daniel
dB	decibel
dBA	A-Weighted Sound Level
DC	direct current
DCS	Distributed Control System
DCTL	Double Circuit Tower Line
DFG	Department of Fish and Game
DLN	dry, low NO _x
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
Duke Avenal	Duke Energy Avenal, LLC
DWR	Department of Water Resources
EAF	Equivalent Availability Factor
EDI	Electro-deionization
EDTA	ethylene diamine tetraacetic acid
EIR	Environmental Impact Report
EMF	Electromagnetic Field
EPC	engineering, procurement and construction

EPRI	Electric Power Research Institute
ERPG	Emergency Response Planning Guide
ERPG-2	Emergency Response Planning Guide - Level 2
ESA	Endangered Species Act
ESA	Environmental Site Assessment
F	Degree(s) Fahrenheit
FEP	Federal Emergency Plan
ft	feet
FY	fiscal year
g	gram
g/sec	grams per second
GE	General Electric
GEP	good engineering practice
gpd	gallons per day
gpm	gallons per minute
H ₂ S	hydrogen sulfide
H&SC	Health & Safety Code
HAPs	hazardous air pollutants
HAT	humid air turbine
HDPE	High Density Polyethylene
Hg	Mercury
HgA	Inches of mercury absolute
HHV	higher heating value
HP	high pressure
HRA	Health Risk Assessment
HRSG	heat recovery steam generator
HTW	high-temperature water
HVAC	heating, ventilation and air conditioning
Hz	Hertz
IBEW	International Brotherhood of Electrical Workers
IGCC	integrated gasification combined-cycle
IIPP	Injury and Illness Prevention Program
IP	intermediate-pressure
ISCST3	Industrial Source Complex Short Term Version 3
ISRG	intercooled steam recuperated gas turbine
KART	Kings Area Rural Transit
kcml	1,000 Circular Mils
KCSD	Kings County Sheriff Department
KCWA	Kern County Water Agency
km	kilometer
KOPs	Key Observation Points
kV	kilovolt

kV/m	kilovolts per meter
kW	kilowatt
lbs	pounds
Lbs/MMscf	Pounds per million standard cubic feet
L _{DN}	Day-Night Noise Level
LEA	Local Enforcement Agency
L _{EQ}	equivalent noise level
LHV	Lower Heating Valve
L _{max}	maximum noise level
L _{min}	minimum noise level
LOS	level of service
LORS	Laws, Ordinances, Regulations and Standards
LP	low pressure
L _p	power levels
LSA	LSA Associates, Inc.
M	Magnitude (earthquakes of)
m/sec	meters per second
MACT	maximum achievable control technology
MCC	motor control center
MCE	Maximum Credible Earthquake
mG	milligauss
mg/L	milligrams per liter
mm	millimeters
MM	Million (10 ⁶)
M _{max}	maximum earthquake magnitude
MMBtu	Million British Thermal Units
MMcfd	million cubic feet per day
mph	miles per hour
MSDS	material safety data sheet
MSW	municipal solid waste
MW	megawatt
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NAS	Naval Air Station
NDDB	Natural Diversity Data Base (California)
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
NH ₃	aqueous ammonia
NIOSH	National Institute of Occupational Safety and Health
NO ₂	Nitrogen Dioxide
NO _x	oxides of nitrogen
NOI	Notice of Intent

NTP	Notice to Proceed
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historical Places
NSPS	New Source Performance Standards
NSR	New Source Review
O&M	operation and maintenance
O ₂	oxygen
O ₃	ozone
OEHHA	Office of Environmental Health Hazard Assessment
OES	California Office Emergency Services
OSHA	Occupational Safety and Health Administration
Pb	lead
PCB	Polychlorinated Biphenols
PFBC	pressurized fluidized bed combustion
PG&E	Pacific Gas & Electric
pH	Potential Hydrogen
PM _{2.5}	Particulate Matter w/aerodynamic diameter less than or equal to 2.5 microns
PM ₁₀	Particulate less than or equal to 10 microns in diameter
POC	Precursor Organic Compounds
POTW	publicly owned treatment works
ppm	parts per million
ppmvd	parts per million by volume dry
PRC	Public Resources Code
PRIMMP	Paleontological Resource Impact Monitoring and Mitigation Program
Project	Avenal Energy Project
PSD	Prevention of Significant Deterioration
PWL	power levels
PWR	pressurized water reactors
RACM	reasonably available control measures
RCRA	Resource Conservation and Recovery Act
RDF	refuse derived fuel
RELs	reference exposure levels
RMP	Risk Management Plan
ROC	reactive organic compounds
ROG	reactive organic gases
ROW	right-of-way
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
RWSC	raw water softener clarifiers

SB	Senate Bill
scf	standard cubic foot
SCR	selective catalytic reduction
SCS	Soil Conservation Service
SHRA	Screening health risk assessment
SIGT	steam-injected gas turbine
SIP	State Implementation Plan
SIS	System Impact Study
Site	Avenal Energy Site (148 acres)
SJDB	San Joaquin dune beetles
SJKF	San Joaquin Kit Fox
SJVRP	San Joaquin Valley Recovery Plan
SJVRR	San Joaquin Valley Railroad
SJVUAPCD	San Joaquin Valley Unified Air Pollution Control District
SMAQMD	Sacramento Metropolitan Air Quality Management District
SMUD	Sacramento Municipal Utility District
SO ₂	sulfur dioxide
SO ₄	sulfates
SPCC	Spill Prevention, Control and Countermeasure
SPEL	Short-Term Public Emergency Limit
SPPE	Small Power Plant Exemption
sq. ft.	square feet
SR	state route
SSAC	Steel Supported Aluminum Conductor
SSC	Standard Surface Condenser
SSC	Steam Surface Condenser
STG	Steam Turbine Generator
STPEL	Short-Term Public Emergency Limit
SVP	Society for Vertebrate Paleontology
SWIS	Solid Waste Information System
SWP	State Water Project
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
T-BACT	Toxic Best Available Control Technology
tcf	trillion cubic feet
TDS	total dissolved solids
TLDD	Tulare Lake Drainage District
TO	Transmission Owners
tpy	tons per year
TSP	total suspended particulates
TSS	total suspended solids

UBC	Uniform Building Code
UCMP	University of California Museum of Paleontology
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
USBR	United States Bureau of Reclamation
$\mu\text{S}/\text{cm}$	microsiemens per centimeter
USBR	United States Bureau of Reclamation
USDA	United States Department of Agriculture
USGS	United States Geological Survey
USEPA	United States Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
UTM	Universal Transverse Mercator Projection
V	Voltage
V/m	Volts per meter
VOC	volatile organic compound
WTE	waste-to-energy
yr	year (8,760 hours)
ZLDF	zero liquid discharge facility